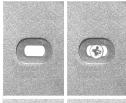
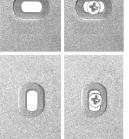
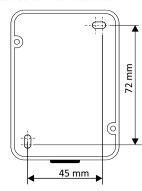
Installation







Measures for wall installation



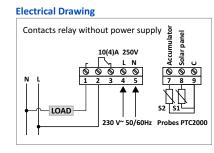
PLUG-IN Connector



ASSEMBLY NOTE

Before making any electrical connections, ensure that the control is disconnected from the power supply.

Any manipulation of the control is to be performed only by qualified personnel.





Guarantee Conditions

This appliance has a three-years guarantee limited to replacement of defective parts. Transports not included.

We will not accept any responsibility for damage caused to the appliance by poor handling.

- The guarantee does not include:
- Appliances with a damaged, effaced or altered series number.
- Appliances which have not been connected or used following the instructions that
- Appliances which have been altered without the prior consent of the manufacturer.
- Appliances damaged by blows of liquid spills or gaseous emissions.

For the rest of general conditions visit our web.

VERY IMPORTANT:

Before opening the box, to access the connection, make sure the voltage switch.

This controller is not a safety device, or can be used as such, it is the responsibility incorporate adequate protection to every type of installation (homologated) installer.

The probe cable must be as far away as possible from other electrical conductors. Its maximum recommended by current regulation length should not exceed 3 meters. If need lengthen, it is to be done by welding and shrink to keep reading value and isolate from moisture.

Independent control device mounting, and connection via fixed pipeline.

Reserved the right of modify without prior

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Descripción

Differential control that actives/deactives the relay depending on the temperature difference between the probes. Typical set-up for a solar-panel installation:

When the temperature difference between the two probes is greater than the value set in dFA, activates relay (connected to a pump), and the heat-transfer fluid in the circuit will circulate until dFd is reached.

When the solar panel temperature is lower than the value set in Ant, activates relay to make the heat-transfer fluid circulate until the temperature set in Ant +2°C (fixed differential) is reached, regardless of the accumulator temperature.

When the temperature rises above the value set in tAL (temperature alarm) activates ALr that has a three types of operating:

AAC - (Accumulator Temperature Alarm - probe S2), it turns on relay 1 connected to the pump when the acumulator temperature (S2) is greater than the set in parameter tAL, regardless of the value that has the dFA parameter.

APL - (Solar Panel Temperature Alarm - probe S1, mode used in installations with a draining system) it deactivates relay connected to pump when the solar panel temp. (S1) is greater than the set in tAL.

ArO - (Accumulator Temperature Alarm - probe S2, type used in Zone Valves Control Installation) it deactivates relay connected to valve when the accumulator temperature (S2) is greater than the set in tAL.

Operation

1. On powering up, the display shows "---", " $\{ \} \} \}$ ", "---" and the temperature selected in the Pnt parameter:

tAC = Accumulator - Tank Temperature

tPL = Solar panel - Collector Temperature (factory setting)

- 2. Pressing OK shows the second temperature of Pnt parameter.
- 3. Pressing for 5 seconds takes you into and out of forced operation of the relay. The screen displays simbol and on1. If not out of this mode, the control is fixed and does not regulate.
- 4. Pressing \(\sigma\) for 5 seconds takes you into and out of forced stoppage. The screen displays OFF.

Note: go through steps 3 and 4 to check that your installation is properly set up, and make sure that control returns to normal mode.

Factory Settings

Function Description Adjusted to	Scale
CAd Accumulator Probe Calibration0°C.	-9 to +9°C
CAc Solar Panel Probe Calibration0°C.	-9 to +9°C
dFA Activation Differential8°C.	2 to 15°C
dFd Deactivation Diferential4°C.	1 to 11°C
Ant Anti-Frost Option (differential fix to 2°C) 5°C.	-20 to +10°C
ALr Alarm ModeAAC.	AAC / APL / ArC
tAL Alarm Temperature (differential fix to 1°C) 60°C.	15 to 110°C
Pnt Temperature display on screen tPL.	tPL or tAC
tPP Time to acces programming Parameters 5 seconds.	3 to 40 seg.
$\textbf{PAS} \ \ \textbf{Password (to access programming)} \textbf{0 deactivated.}$	0 to 99

The factory settings are those considered to be the most common for normal use of installations. If they are right for your purposes, your thermostat is ready to control and regulate your installation. If you should need any other settings please read this manual carefully.

Reset settings to factory defaults

- Disconnect the control power and reconnect, wait until see on the screen the temperature reading.
- Press OK until see on the display "---" (aprox. 40 seconds).
- The settings return to the factory settings if you has the password disabled ("0").

Description of Parameters

- Accumulator Probe Calibration S2(CAd): Adjust the temperature reading of the probe to the reading of a pattern precision thermometer.
- Solar Panel Probe Calibration S1(CAc): Adjust the temperature reading of the probe to the reading of a pattern precision thermometer.
- Activation Differential (dFA): Defines the temperature difference that must exist between accumulator and solar panel to activate the pump.
- Deactivation Differential (dFd): Defines temperature difference that must exist between accumulator and solar panel to activate the pump.
- Anti-Frost Option (Ant): When the solar panel probe goes below this. relay is activated and is disconnected with Ant + 2°C.
- Type for Alarm Relay (ALr): Operating mode for tAL depending if installation has panel-draining or Unit Heater.
- Accumulator Alarm (tAL): When the temperature in the accumulator reaches the value indicated in tAL, the relay will behave according to the setting of ALr.
- Temperature Display on Screen (Pnt): Select which temperature reading will display (tPL solar panel / tAC accumulator).
- Time of acces to programming of parameters (tPP): Time that should be pressing PRG to enter in the programming of parameters, either to modify them or to visualize their values. (Time expressed in seconds)
- Password to acces parameters (PAS): Access code for programming parameters (default "0" off) Once activated, proceed as follows:
- 1. PAS appears for an instant and then the message "0"; with arrows, up or down, select the access code previously programmed.
- 2. Press OK. If the selected number is correct, appears CAd. If the number selected it is incorrect control does not allow access to programming, appearing "---".

Parameters Programming

- 1. Press PRG during the time settled down in the parameter tPP (of factory 5 seconds) and CAd appear in the screen. Release the key.
- 2. Pressing **OK** their current value will appear blinking.
- 3. While value is blinking, press ♠ or ❤ to change the desired value. Press OK to store it in memory. The designation of the parameter being programmed reappears.
- 4. Press to scroll forward to the next parameter. Repeat step 2 and 3.
- 5. Press **PRG** to exit the parameters "---" appears and then the current temperature detected by the probe. After 1 minute without pressing any key, the thermostat leaves programming of parameters.

Warning Indicators

1 -> Fixed in the display indicates that the relay is on.

ES -> Probe Error: Probe is disconnected or its wires are cut. Relay to off.

AL -> Temperature Alarm. Operating according to the ALr setting.

ErP-> Programming Error: dFA should be higher than dFd. Relay to off.

Technical Specifications

Power Supply:	230Vac +10%, -15% 50/60Hz.
Probes (without polarity):	2, PTC2000 IP65 -40 to +140°C.
Resolution:	0,1°C.
Maximum cable section to connect:	1,5mm².
Relay - Breaking power (potentials free co	ntacts): 10(4)A 250V~.
Environment: Tmin. 0°0	C, Tmax. 45°C , %H.R. 20 85% .
Storage temperature:	maximmum 50°C.
Protection degree:	IP20.
Pollution degree:	2.
Action type According EN 60730:	1.B.